

PAPORT, Ya.L.; ISHCHENKO, V.V.

Immunomorphology of rheumatic fever. Grud. khir. 2 no.6:7-14
(MIRA 14:1)
N-D '60.

1. Iz Instituta grudnoy khirurgii (dir.prof. S.A.Kolesnikov;
nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSSR. Adres
avtorov: Moskva, Leninskiy prospekt, d.8, Institut grudnoy
khirurgii AMN SSSR.
(RHEUMATIC HEART DISEASE)

EAFOSHNIKOV, V.M., AND V. A. SEMENCOVA

"The Material Dependence of Energy Metabolism on Synthesizing Metabolism in Bacteria," Ibid, 18, 2, 106-117, 1948

PALVÍČEK, L.; ŠLIVKA, J.

Anharmonic potential functions of polyatomic molecules. Pt. 6.
Csl. Cz (Chem. Z. no. 9, 1973-1974) p. '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of
Sciences, Prague. 2. Advisory Board member, "Collection of
Czechoslovak Chemical Communications" (for Šlívka).

PAPOUSEK, D.

Characteristic anharmonic effects in the vibrational spectra of
polyatomic molecules. Coll. Czechoslov. Chem. Communs. 29 no. 10:2275-2282 O '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of
Sciences, Prague.

SKRIP, Miroslav (Prno); PAPOUSEK, Dalibor (Prno); MARTAN, Miloslav (Prno)

Surface heat exchangers, in particular the water heated
for heat exchange plants. Energocirka (z 14 nov. 1974).

PAPOUŠEK, D; PLÍVÁ, J.

Czechoslovakia

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Science -- Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 4, 1963, pp 755-775.

"Computer Calculation of Quadratic Molecular Potential
Constants."

2

5/081/63/000/001/007/061
B101/B186

AUTHOR: Papousek, D.

TITLE: Thermodynamic functions of the anharmonic oscillator and of the vibrating rotator. II. Rotational distribution function of diatomic molecules in multiplet Σ -electron states

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1963, 63, abstract 1B404 (Collect. Czechosl. Chem. Commun., v. 27, no. 1, 1962, 1 - 8 [Ger.; summary in Russ.])

TEXT: The sum of rotational states of heteronuclear diatomic molecules in the Σ^M electron ground state was calculated for the following values of multiplicity $M = (2S + 1)$: 1, 2, 3, 4, 5, 6, and 7 (S is the resulting electron spin). The results are represented as $Q_{bp}^M = M Q_{bp}' + Q(S)$, where Q_{bp}' and Q_{bp}^M are the sums of rotational states on the given vibrational level for the Σ' and Σ^M states and $Q(S)$ is the addend. The form of the latter was found and is indicated for the given M values. It was found that the correction $Q(S)$ can be neglected in the usual calculations of the thermodynamic

Card 1/2

PAPOUSEK, D.

*Advances in chemical physics. "Vol. 4. Reviewed by D.Papousek.
Chem listy 57 no.10:1082-1083 O '63.

PAPOUSEK, D.

"Nonequilibrium statistical mechanics" by I.Prigogine. Revised
by D.Papousek. Chem listy 58 no. 3:325 Mr '64.

Fifteenth Spectroscopic Meeting in Minsk, July 5-1 , 1963 and
the Seventh European Congress of Molecular Spectroscopy in
Budapest, July 22-27, 1963. Ibid.:344-346

PAPNUSEK, D.

"Thermodynamic properties of individual substances" by
L.V. Gurvits and others. Retrieved by L. Papnusek. 1973
library 58 n. 5 503-504. My '64.

Panousek, D.

CZECH

2025 Some applications of the silver-amalgam
✓ electrode in oscillographic polarography. D.

Panousek (Chem. Listy, 1954, 48 (8), 1261-1262).

A stationary silver-amalgam electrode replaces with
advantage the vibrating silver-amalgam or the
mercury electrode. In ammoniacal solutions of
chlorides it gives stable and reproducible oscillo-
grams.

G. GLASER

PAPOUSEK, D.

3000

CZECH

Some applications of the silver amalgam electrode in
potentiographic polarography. I). Faraday's Constant
Szechow, Chem. Commun. 20 (1965) (in German)
See C.A. 49, 7414

Greenfield

PAPOUSEK, DUŠAN

The effect of ultrasound on the liberation of hydrogen on a mercury electrode. Čes. Čas. Fyz., 1957, No. 11 (1958). The effect of ultrasound waves on the electrochemical process is generated on the Hg electrode was studied. The principle is based on the fact that the Hg electrode with its unique form can generate an acoustic wave field that transmits the ultrasound on the surface of the electrode. The results of experiments indicate a strong effect of ultrasound on the electroreduction of H which can be explained by a desorptive or recombination theory of H overvoltage.

Jan Míkka

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PAPOUSEK, DUŠAN
CZECHOSLOVAKIA/Physical Chemistry - Solutions,
Periodic Table of Acids and Bases.

Approved for RELEASE: 06/15/2000 20746 CIA-RDP86-00513R001239130001-1"

Abs Jour : Ref Zhur - Khimiya, No 15/1958
 Author Inst Title : Dusan Papousek.
 Orig Pub : Chem. listy, 1957, 51, No 2, 219-228; Sb. chekhol. khim. rabot, 1957, 22, No 5, 1368-1379.

Abstract : Study of Desolvation at Formation of Complex Ions by Measuring Adiabatic Compressibility of Solutions.

Abstract : Expressions of the divergence of the adiabatic solution compressibility from additivity in its dependence on composition are proposed. An experimental checking of obtained expression is presented in the case of desolvation at the formation of complex ions $[Zn(NH_3)_4]^{2+}$,

$[Zn(OH)_4]^{2-}$, $[Zn(CN)_4]^{2-}$ and $[Al(OH)_4]^-$.

PAPOUSEK, DUŠAN

CZECHOSLOVAKIA/Atomic and Molecular Physics - Statistical Physics D-3
Thermodynamics

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 1293⁴

Author : Papousek Dušan
Inst : Masaryk University, Brno, Czechoslovakia
Title : Study of Intermolecular Interaction in Liquids. I. Adiabatic
Compressibility and Structure of the Hydrogen Peroxide-Water
System.

Orig Pub : Chem. listy, 1957, 51, No 10, 1781-1786

Abstract : By measuring the velocity of ultrasonic in a liquid mixture
of H₂O₂ and H₂O, the author has determined the adiabatic com-
pressibility of the mixture and the isothermal compressibility,
specific heat c_V, and the Poisson coefficient of pure liquid
H₂O₂. The anomalously low compressibility of H₂O₂ is attri-
buted to the three-dimensional association of the H₂O₂ mole-
cules by means of a hydrogen bond.

Card : 1/1

24

CZ/8-52(32)-10-1/39

AUTHOR: Papoušek, DušanTITLE: Study of the Intermolecular Action in Liquids IV.
(Studium mezinamolekulárního působení v kapalinách. IV)
Association of Liquids (Asociace kapalin)PERIODICAL: Chemické Listy, 1958, Vol.52(72), Nr 10, pp 1245-1250
(Czechoslovakia)

ABSTRACT: The energy of association of liquids was calculated from empirical relations which were previously found between the surface tension or adiabatic compressibility and the volume density of intermolecular energy of liquids. Values of the surface tension compressibility or viscosity i.e. of all linearly-associated liquids depend mainly on weaker physical forces (van der Waals forces) Ref. 6. For instance, a change in the volume during compression of associated liquid is mainly due to a change in the "free" distance between associated forms (Refs. 7 and 8), the intercompressibility of associate molecular aggregates, can be neglected. Formulae for calculating U_{pot} (energy of association) from U_{pot} (intermolecular potential energy of association of the liquid) and U'_{pot} (energy of van der Waals forces) are given. Results of calcu-

Card 1/4

CZ/8-52(72)-10-1/39

Study of the Intermolecular Action in Liquids. IV. Association of Liquids.

lations are given in Table 2. The calculated values of dissociated energies of monovalent aliphatic alcohols decrease with increasing length of the alkyl residue. The association energy of normal alcohols is greater than for the corresponding isomers. This agrees with the results of studies of the Raman spectra of liquid alcohols (Ref.18) according to which the number of molecules associated with hydrogen bonds decreases with the increasing length of the alkyl residue. In methyl alcohol, where a complete association of molecules in the liquid phase can be considered to exist, the calculated value of associated energy can be assumed to be near to the characteristic energy of the hydrogen bond. Its value (0.97 kcal/mol) agrees with the value of 6 - 6.2 kcal/mol which is currently quoted for the energy of hydrogen bonds in alcohols (Ref.20). The calculated values of associated energies of ketones and nitriles (Table 2) also agree with data obtained when using other methods, and with current ideas on the effect of the structure of the molecule on its association. Larger discrepancies

Card 2,4

OZ/8-02(82)-10-1/39

Study of the Intermolecular Action in Liquids. IV. Association of Liquids

can only be observed for hexyl- and heptyl alcohol. The relatively large values for changes in the energy of association during the transition of organic acids from the liquid to the vapour phase confirm that these substances show a higher degree of association in the condensed phase than in the vapour phase. Results in Table 2 also indicate a decrease in the association with increasing temperature. These results are, however, more qualitative because the changes are comparatively small. The obtained results show that simplified assumption on which the calculation is based explains satisfactorily the physical conditions in associated liquids. The calculated values are considered to interpret widely the association in liquids. Discrepancies from actual

Card 3/4

CZ/8-52(82)-10-1/39

Study of the Intermolecular Action in Liquids. IV. Association of Liquids.

values do not exceed 0.02 Kcal/mol. There are 1 Figure, 2 Tables and 21 References: 14 English, 3 Czech, Soviet and 1 French.

ASSOCIATION: (Department of Theoretical and Physical Chemistry, ^{Fakulta}
Katedra teoretické a fyzikální chemie, Přírodovědecká /
Masarykova univerzita, Brno
(Masaryk University, Brno)

SUBMITTED: 7th November, 1957

Card 4/4

FARCUSEK, D.

"Intermolecular interaction in liquids. IV. Association of liquids."

CHANTCHE LUSTY, Praha, Czechoslovak Academy of Sciences, Vol. 2, no. 4,

Sept. 1959

Monthly list of East Europe Accessions (EAT), LC, Vol. 8, no. 6, Sept. 1959

Unclass.

PAPOUSEK, D.

7
HE 32
299 (nB)

I. Intermolecular interaction in liquids. V. The thermodynamic computation of the compressibility coefficient of liquids. D. Papousek (Masarykova Univ., Brno, Czech.). Collection Czechoslovak Chem. Commun. 24, 2801-4 (1959); cf. C.A. 53, 24992e.—To calc. the compressibility coeff. of liquids it is necessary to know the energy and entropy:

of the liquid as functions of its vol. The assumptions are discussed that make it possible to calc. the compressibility coeff. and its vol.-dependence if only the 1st named function is known. Finally so-called "geometric part" and "structure part" of the compressibility of a series of liquids is computed. VI. The vapor-liquid equilibrium in systems anisole-ethyl ether/anisole-butyl ether, and methyl alcohol-tetrahydrofuran! Ibid. 2668-72.—The vapor-liquid equil. in the systems anisole-Et₂O, anisole-Bu₂O, and MeOH-tetrahydrofuran was detd. at 600 mm. Hg. The systems anisole-Et₂O and anisole-Bu₂O behave ideally, in the system MeOH-tetrahydrofuran an azeotrope appears at 48 mole % MeOH. The std. vapor tension of pure anisole and tetrahydrofuran and adiabatic compressibility of ethers were detd.: for anisole $\log P^{\circ} = 7.3018 - 1097.1/(t + 230)$; for tetrahydrofuran $\log P^{\circ} = 7.09225 - 1245.5/(t + 230)$. E. Erdős

C7K

PAPOUSEK, D.; KRUSINA, J.; KUCIREK, J.

Molecular complexes with hydrogen bonds. II. Stability and composition of some molecular complexes of alcohols and ethers. In German.
Coll.Cz.Chem. 24 no.9:2967-2974 S '59. (ECAI 9:5)

1. Institut fur theoretische und physikalische Chemie, Naturwissenschaftliche Fakultat und Physikalischanalytisches Institut, Pharmazeutische Fakultat, Masarykuniversitat, Brno.
(Hydrogen) (Alcohols) (Ethers)

PAPCUSA, D.

Application of ultrasonics in physical-chemistry investigation. p. 127.

CHEMICKÉ LISTY. (Ceskoslovenska akademie ved. Chemicky ustav) Praha,
Czechoslovakia, Vol. 53, no. 2, Feb. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
uncl.

6
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2. 8/9 (N/A)
cg
// Thermodynamic properties of the carbon tetrachloride-propyl alcohol and carbon tetrachloride-isopropyl alcohol systems at 70°. Dušan Pápolček, Zlata Papoušková, and Ladislav Págo (Masaryk Univ., Brno, Czech.). *Z. physik. Chem.* (Leipzig) 211, 231-40 (1959)(in English).—The liquid-vapor equil. of the systems $\text{CCl}_4\text{-PrOH}$ and $\text{CCl}_4\text{-iso-PrOH}$ were measured at 70° by means of a modified Gillespie app. (*C.A.* 40, 5901). The thermodynamic consistency of the exptl. data according to Redlich and Kister was proved. The thermodynamic properties of the systems are explained by the Kretschmer-Wiebe theory (*C.A.* 49, 1392b), based on the assumption of continued assocn. in solns. of alcs. and on the use of the Flory-Huggins expression for the free energy of soln. The theory correctly predicts the asym. shape of the curves of the excess free energy of mixing and agrees fairly well with the exptl. data. The less pronounced assocn. of iso-PrOH in comparison with PrOH is also indicated correctly by the theory. F.R.

PAPOUŠEK, D.

21
M
SS
/ Thermodynamic properties of carbon disulfide, carbon oxyaldehyde, carbon diselenide, and carbon sulfide selenide from vibrational and structural data. Dušan Papoušek (Masaryk Univ., Brno, Czech.), Z. physik. Chem. (Leipzig) 211, 301-4 (1959) [in English].—The thermodynamic data C_v° , $(H^{\circ} - H_0^{\circ})/T$, S° , and $(C^{\circ} - H_0^{\circ})/T$ of CS₂, CSO, CSe, and CSSe were calc'd. in the temp. range 273.16-1000°K. by-aid of vibrational and structural data and are given in tabular summaries. Friedrich Epstein

3
Friedrich Epstein

Country	:	Czechoslovakia	B-8
Category	:	Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical Analysis. Phase Transitions.	
Abs. Jour.	:	Ref Zhur-Khimika, No 6, 1959	18437
Author	:	Papousek, D.; Smekal, E.	
Institut.	:	<u>-</u>	
Title	:	Study of Intermolecular Interaction in Liquids. II. Liquid-Vapor Equilibrium in the System n-Butyl Ether - Ethyl Ether.	
Orig Pub.	:	Chem. listy, 1958, 52, No 3, 542-543	

Abstract : To determine equilibrium at 600 mm Hg use was made of a flow apparatus (RZhKhim, 1955, 31216). Analysis of equilibrium samples was carried out with Zeiss immersion refractometer. Values of constants of Van Laar equations, calculated from data under study, are in very good agreement with the values calculated on the basis of properties of pure substances, according to Erdoes (RZhKhim, 1957, 40564). Communication 1 see RZhKhim, 1958, 73371. -- L. Matousek.

Card: 1/1

PAPOUSEK, D.

Distr: hElx(g)/hE2c
The potential constants of the molecules and the thermo-dynamic functions of the $\text{GeH}_4/\text{GeF}_4$, GeCl_4 , GeBr_4 , and GeI_4 . J. Kučírek and D. Papousek (Masarykova univ., Brno, Czech.). Collection Czechoslov. Chem. Commun. 25, 31-7(1960).—The potential consts. of the general quadratic potential function of the mol. GeH_4 , GeF_4 , GeCl_4 , GeBr_4 , and GeI_4 were computed from published structural and vibration data. The thermodynamic functions of these substances in the ideal gas state at 1 atm. pressure from 100 to 1000°K. were calc'd. by the usual methods of statistical thermodynamics; empirical equations for the heat capacities are given. E. Erdős

5

1-Myc (fd)
1-BW(Bw)

2

JAKES, J.; PAPOUSEK, D.

Molecular potential constants and thermodynamic functions of boron halides. Coll Cz Chem 26 no.9:2110-2123 '61.

1. Institut fur theoretische und physikalische Chemie, J. E. Purkyne Universitat, Brno. 2. Jetzige Adresse: Institut fur makromolekulare Chemie, Tschechoslovakische Akademie der Wissenschaften, Prag(for Jakes)

(Boron halides)

PAPOUSEK, D.

Thermodynamic functions of non-harmonic oscillators and swinging rotators. Coll Cz Chem 26 no.10:2473-2479 0 '61.

1. Institut fur theoretische und physikalische Chemie, J. E. Purkyne-Universitat, Brno.

PAPOUSEK, D.; VALETOVA, M.

Thermodynamic functions of gas forming LiCl, LiBr and LiJ.
Coll Cz Chem 26 no.12:3757-3160 D '61.

1. Institut der theoretischen und physikalischen Chemie,
Purkyne-Universitat, Brno 2. Jetzige Adresse: Institut fur
organische Chemie und Biochemie, Tschechoslowakische Akademie
der Wissenschaften, Prag (for Papousek).

PAPOUSEK, D.; PLIVA, J.

Computer calculation of quadratic molecular potential constants.
Coll Cz Chem 28 no.4:755-775 Ap '63.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239130001-1

CHINESE, . .

"Mao Tse-tung's 'Thought' by Dr. H. L. Drucker, published
by Chinese Society, Ministry of Culture, 1959, p. 164.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239130001-1"

L 1222-66 EWT(1) IJP(c)
ACCESSION NR: AP5025845

CZ/0008/65/059/005/0543/0560

40

AUTHOR: Papousek, Dusan 44,55

TITLE: Use of computers in molecular spectroscopy 31,44,55

SOURCE: Chemicke listy, v. 59, no. 5, 1965, 543-560

TOPIC TAGS: molecular spectroscopy, digital computer, computer programming

Abstract: Computers will soon be able to undertake tasks that we now feel need a collective effort of research personnel. It may even be possible to develop theory programming. Programming and special properties of digital computers are discussed. The use of computers in molecular spectroscopy is evaluated. Solution of secondary equations describing molecular vibrations is described. Calculations of infrared profiles and Raman belts are discussed. Mathematical analysis for documentation of spectra is described. Interference spectrometry is described. Orig. art. has 4 figures, 18 formulas, and 3 tables.

ASSOCIATION: Ustav fysikalni chemie, Ceskoslovenska akademie ved, Prague
(Institute of Physical Chemistry, Czechoslovak Academy of Sciences) 44,55

SUBMITTED: 00

ENCL: 00

SUB CODE: OP, DP

NO REF Sov: 003

OTHER: 046

JPES

Card 1/1

PAPOUSEK, D.

"Thermodynamic properties of individual substances" by L.V.
Gurvic and others. Reviewed by D.Papousek. Coll. Chem. 30
no.1:351-352 Ja '65.

PAPOUSEK, Dusan

Application of automatic computers in molecular spectroscopy.
Chem listy 59 no.5:543-560 My '65.

1. Institute of Physical Chemistry of the Czechoslovak
Academy of Sciences, Prague.

HORN, V.; PAPOUSEK, F.; URBANOVA, M.; SZARKA, F.

Role of some histochemical methods in bone transplantation.
Acta chir. orthop. traum. Cech. 32 no.5:425-428 (1965).

1. Ortopedicka klinika (prednosta prof. dr. M. Janecek, CSc.)
a I. patologickoanatomicky ustav (prednosta prof. dr. J. Sveda,
DrSc.), lekarske fakulty University J.E. Purkyne v Brne.

SVEJDA, Jaroslav; PAPOUSEK, F.; TOMASEK, V.; KONECNY, M.; KOTAS, J.

Histological changes in the lungs of rabbits following a single roentgen ~~irradiation~~. Cesk. rentgenol. 15 no.4:217-223 '61.

1. I patologickonanatomicky ustanov lek. fak. univ. J.E.Purkyne v Brne, prednosta prof. MUDr. Jaroslav Svejda Onkologicky ustanov, Brno, reditel doc. dr J.Sprindrich.
(LUNG radiation eff.) (RADIATION EFFECTS exper.)

CIBULEC, A.; PAPOUSEK, H.

Electro-acoustic metronom. Activ. nerv. sup. 3 no. 4:448-452 '61.

1. Elektronicka lab. Fyziol. ustavu CSAV v Praze, red. prof. Z. Servit,
Dr. Sc. Lab. VNC ditete Ustavu pro peci o matku a dite v Praze, red.
doc. M. Vojta.

(REFLEX CONDITIONED)

PAPOUSEK, H.

The pediatrician's viewpoint on some ideological problems
in the education of children. Cesk. pediat. 18 no.7:636-639
Jl '63.

1. Ustav pro peci o matku a dite v Praze, reditel doc. dr.
M. Vojta vedouci pediatrickeho useku doc. dr. K. Polacek,
CSC.

(CHILD PSYCHOLOGY) (COMMUNISM) (EDUCATION)
(PEDIATRICS)

PAPOUSEK, H.

Health care for children in Great Britain. Cesk. pediat. 18
no.6:568-571 Je '63.

(PEDIATRICS) (CHILD WELFARE)

JANOS, O.; PAPOUSEK, H.; DITTRICOVA, J.

Effect of age on different functions of higher nervous activity during the 1st months of life. Activ. nerv. sup. 5 no. 4407-410 '63.

1. Laborator VNC , Ustav pro peci o matku a dite, Praha.

*

CZECHOSLOVAKIA

JANOS, O.; PAPOUSEK, H.; DITTRICHNOVA, J.; Laboratory of Higher Nervous Functions-Institute of Mother and Child Care (Laborator VNC-Ustav pro Peci o Matku a Dite) in Prague.

"Age Differences in Higher Nervous Functions in First Months of Postnatal Life."

Prague, Activitas Nervosa Superior, Vol 5, No 4, 1963, pp 407 - 410

Abstract: At the end of the 2nd and beginning of the 3rd month we notice characteristic changes in the frequency of the conditioned palpebral reflexes and in the conditioned reflex to food stimuli. These facts show that at this age a deep change of higher nervous functions takes place. 2 Figures, 2 Tables, no references. Submitted at the Medical Congress in Prague, November 1962.

1/1

PAPOUSEK, H.

Conditioned reflexory movements of the head in the human
newborn. Activ. nerv. sup. 6 no.1:83-84 '64

*

PAPOUSEK, H. (Praha 4, nabr. K. Marxe 157)

Interindividual differences in conditioned food-seeking reflexes
in newborns. Activ. nerv. sup. (Praha) 7 no.2t140-141 '65

I. Institute for the Care of Mother and Child, Prague

CZECHOSLOVAKIA

JANOS, O.; DITTRICOVA, J.; KOCH, J.; PAPOUSEK, H.; TA TERMANNOVA, M.; HELICHAAR, V.; Institute for the Care of Mother and Child, Prague. [Orig. version not given].

"Early Development of Higher Nervous Activity in Premature Infants with Respiratory Distress Syndrome."

Prague, Activitas Nervosa Superior, Vol 8, No 2, Jun 66, p 201

Abstract: 8 premature infants (average weight 1513 grams) who developed a "late asphyctic syndrome" and 9 infants (average weight 1582 grams) with a permanently good condition were studied for 6 months. Somatic development, health, and clinical manifestations in both groups were the same. There was no difference in the rate of reflex elaboration and differentiation, in synchronized sleep or any other aspects that were investigated. 1 Table, no references. Submitted at the 11th Conf. for Exper. and Clin. Study of Higher Nerv. Functions at Mar. Lazne, 12-15 Oct 65.

1/1

L 13035-66

ACC NR: AP600563b

SOURCE CODE: CZ/0079/65/007/002/0140/0141

AUTHOR: Papousek, H.

8
B

ORG: Institute for the Care of Mother and Child, Prague

TITLE: Interindividual differences in conditioned food-seeking reflexes in newborn [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 140-141

TOPIC TAGS: conditioned reflex, man, nutrition

ABSTRACT: Differences in conditioning are found already in newborn infants. Conditioned food-seeking movements of infants were studied. No correlation was found between the rate of conditioning, and the weight, size, or head and chest circumference. Differences in the reflexes could not be correlated with the growth rate or with the fact that some infants were breast fed and others artificially fed. A Correlation, however, was found between the reflexes and the total milk intake of a child. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 05, 06 / SUBM DATE: none / ORIG REF: 006

Card 1/1 (1)

PAPOUSEK, Hanus

PAPOUSEK, Hanus, MUDr

Hemorrhage during infant toxicosis. Pediat. listy 9 no.2:95-96
Ap '54.

1. Z Ustava pro peci o matku a dite, Praha-Podoll, vedouci
pediatr. vyzkumn. doc. Kamil Kubat.
(INFANT NUTRITION DISORDERS,
*toxicosis, with hemorrh.)
(HEMORRHAGE, in infant and child,
*in toxicosis)

PAPOUSEK, Hanus, MUDr.

Nervistic concept of disease in pediatrics. Česk. pediat.
10 no.9:641-649 Nov 55.

I. Z Ustavu pro paci o matku a dite v Praze-Podoli. Reditel
prof. Dr. Jiri Trapl., vedouci pediatrickeho vyzkumu doc. Dr.
Kamil Kubat.

(PEDIATRIC DISEASES,
nervistic interpretation)

PAPOUSEK, Hanus

PAPOUSEK, Hanus, MUDr.

Activity recording in small infants. Cesk. pediat. 11 no.11:
850-854 Nov 56.

1. Ustav pro peci o matku a dite v Praze, reditel ustavu prof.
J. Trapl, vedouci pediatrickeho vyzkumu doc. K. Kubat.

(MOVEMENT
in small inf., recording appar. (Cz))

(INFANT
locomotor activity, recording appar. (Cz))

(APPARATUS AND INSTRUMENTS
inf. locomotor recording appar. (Cz))

PAPOUSEK, Hanus

~~Collective rearing of children up to 3 years in the USSR; report I~~
from a study trip. Cesk. pediat. 14 no.2:183-186 5 Feb 59.

1. Ustav pro peci o matku a dite v Praze-Podoli, vedouci pediatrickeho
useku prim. MUDr. Karel Polacek.

(CHILD
collective rearing in USSR (Cz))

PAPOUSEK, Hanus

Conditioned motor digestive reflexes in children. II. A new experimental method for the investigation. Cesk.pediat.15 no.11:981-988 N°60.

1. Ustav pro pediatrie a matku a dite v Praze-Podoli, vedouci pediatrickeho useku prim.dr. Karel Polacek.
(REFLEX CONDITIONED in inf & child)

PAPOUSEK, Hanus

Conditioned digestive motor reflexes in children. I. Experimental conditioned sucking reflexes. Česk.pediat.15 no.10:861-872 0'60.

1. Ustav pro peči o matku a dítě v Praze-Podoli, vedoucí
pediatrického úseku primdr. Karel Poláček, C Sc.
(REFLEX CONDITIONED)

PAPGUSEK, Hanus

Conditioned motor food reflexes in children. III. Experimental
conditioned rotation reflexes of the head. Cesk.pediat.15 no.12:
1057-1065 D '60.

1. Ustav pro peci o matku a dite v Praze-Podoli, vedouci pediatrickeho
useku C. Sc. dr. Karel Polacek.
(REFLEX CONDITIONED in inf & child)

PAPOUSEK, Hanus

On the development of so-called voluntary movements in the earliest stage of child development. Cesk. pediat. 17 no.7/8:588-591 Ag '62.

1. Ustav pro peci o matku a dite v Praze-Podoli -- Laborator vyssi nervove cinnosti ditete, vedouci prof. O. Janos, CSc.
(INFANT NEWBORN) (MOVEMENTS)
(PYRAMIDAL TRACTS) (REFLEX CONDITIONED)

VANICEK, V. [deceased]; PAPOUSEK, J.

Oxidative condensation of 1-aryl-3-methyl-4-amino-5-pyrazolones
with m-phenylenediamine and its derivatives. Coll Cz Chem 27
no.12:2796-2800 D '62.

1. Forschungsinstitut fur organische Synthesen, Organisch-techno-
logisches Laboratorium I, Pardubice - Rybitvi.

VANICEK, V. [deceased]; PAPOUSEK, J.

Oxidative condensation of 1-aryl-3-methyl-4-amino-5-pyrazolones
with m-phenylenediamine and its derivatives. Coll Cz Chem 27
no.12:2796-2800 D '62.

1. Forschungsinstitut fur organische Synthesen, Organisch-techno-
logisches Laboratorium I, Pardubice - Rybitvi.

VANICEK, V.; PAPOUSEK, J.

CSFR

Research Institute for Organic Syntheses, Organic-Technological Laboratory I,
Pardubice-Rybitvi
Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962,
pp 2796-2800.

"Oxydation Condensation of 1-Aryl-3-Methyl-4-Amino-5-Pyrazolones with m-
Phenylene Diamine and its Derivatives"

~~PAPOUSEK~~, Ladislav, inz., nositel cestneho odznaku "Nejlepsi pracovnik geologicke sluzby"

Evaluation of pumping tests by Lorenz's graphic-calculation method. Geol pruzkum 5 no.4:104-106 Ap '63.

1. Geologicky pruzkum, n.p., Praha, zavod stavebni geologie.

PAPOUSHEK, D.; KUCHIREK, Ya [Kucirek, J.]

"Structural contributions" to the values of the second derivatives of the thermodynamic potentials of liquids. Zhur.fiz.khim. 34 no.1:168-176 Ja '60. (MIRA 13:5)

1. Universitet g.Brno, Chekhoslovakiya.
(Expansion of liquids) (Compressibility) (Heat capacity)

5(4)
AUTHORS:Papoushek, D., Kuchirek, Ya.S/076/60/034/01/027/044
B010/B014

TITLE:

"Structural Contributions" to the Values of Second Derivatives
of the Thermodynamic Potentials of LiquidsPERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 1, pp 168-176
(USSR)

ABSTRACT: Simple thermodynamic relations expressing the so-called "structural contributions" to compressibility (Table 1, Figs 1-4), thermal expansion, and specific heat (Table 2, Figs 5 and 6) are used here in the form of second derivatives of entropy with respect to volume, pressure, or temperature. The numerical values of these derivatives were computed according to experimental data for a number of liquids with different character of the intermolecular interaction as well as for liquid mixtures: acetone - chloroform (Fig 7), acetone - carbon disulfide (Fig 8), benzene - ethylene dichloride (Fig 9), and benzene - carbon tetrachloride (Fig 10). The authors discussed their relation to the molecular structure of liquids. Structural contributions and the compression values of liquids are easily

Card 1/2

S/058/62/000/011/016/061
A062/A101

AUTHORS: Papoushek, D., Tserman, O., Travnichkova, G., Kuchirek, Ya.

TITLE: Thermodynamic functions of an anharmonic oscillator and a vibrating rotator

PERIODICAL: Referativnyy zhurnal, Fizika, no. 11, 1962, 11, abstract 11V69
("Spisy přírodrodověd. fak. univ. Brně", 1962, v. 26, no. 1, 19 - 35;
summaries in English and German)

TEXT: A method is proposed for calculating statistical sums of an anharmonic oscillator and a vibrating rotator. For the vibrating energy levels a relation is introduced which contains 4 constants; taken into account are the limitation of the vibrating and rotating levels, the interaction of the vibration with the rotation, and the influence of the centrifugal force at the rotation. The approximation used permits to obtain, in the entire temperature range of the given tables, the same accuracy of calculation (within three decimal digits) as in the case of direct summation. The tables may be applied up to temperatures determined by the relation $1.4388 \omega/T > 0.4$. For most two-atom molecules this corresponds to temperatures up to 3,000°K.
[Abstracter's note: Complete translation]

Card 1/1

S/058/62/000/012/014/048
A160/A101

AUTHOR: Papoushek, D.

TITLE: The rotational sum of the states of diatomic molecules for Hund's
a - b case

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1962, 7, abstract 12V44
("Spisy přírodověd. fak. univ. Brně", no. 1, 1962, v. 26, 9 - 18;
summaries in English and German)

TEXT: Presented are expressions for the rotational energy of a diatomic molecule in the electronic states $^2\pi_{1/2}$, $^2\pi_{3/2}$, $^3\pi_0$, $^3\pi_1$, $^3\pi_2$ in the intermediate case between the a and b cases of Hund's coupling. A correction for the effect of the centrifugal force is included in the expressions. They are inserted into the formulae for the rotational sum of the states. These sums are expressed in terms of hyperbolic functions expanded into infinite series. The substitution of the sum by integration permits to represent rotational sums in the form of a sum of a finite number of terms, whereby the coefficients in these sums are calculated and simple numerical relations were obtained for them. The obtained

Card 1/2

L 6298-65 EWT(1) IJP(e)	
ACCESSION NR: AR5012228	UR/0058/65/000/003/D014/D014
SOURCE: Ref. zh. Fizika, Abs. 3D87	10 β
AUTHOR: Papoushek, D.; Tsigla, E.; Pliva, I.	
TITLE: Calculation of quadratic and unharmonic constants of the potential energy of molecules with automatic computers	
CITED SOURCE: Tr. Komis. po spektroskopii. ANSSSR; vyp. 1, 1964, 140-153	
TOPIC TAGS: potential energy constant, molecule potential energy, automatic computer program, valence strength coordinate, normal coordinate	
TRANSLATION: Methods are developed for automatic calculation of the quadratic, cubic, and biquadratic potential constants in a system of valence-force coordinates, and the method of their nonlinear trans-	

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239130001-1

order perturbation theory; 2) calculation of the cubic and diquadratic terms in the potential function; 3) nonlinear transformations of general valence-force coordinates into normal coordinates; 4) calculation of anharmonic and rotational-vibrational constants. A concrete calculation is given for the molecules H₂O and H₂S; the anharmonic constants in valence-force and normal coordinates are calculated, together with the distribution of the anharmonic parts of the potential energy among the valence-force

1 46298-65

ACCESSION NR: AR5012228

tic functions with the aid of empirical anharmonic potential functions

3) nonlinear transformations of general valence-force coordinates into normal coordinates; 4) calculation of anharmonic and rotational-vibrational constants. A concrete calculation is given for the molecules H₂O and H₂S; the anharmonic constants in valence-force and normal coordinates are calculated, together with the distribution of the anharmonic parts of the potential energy among the valence-force

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239130001-1"

PAPOUSHEK, G.

A method for studying conditioned food reflexes in infants under six months of age [with summary in English]. Zhur.vys.nerv.deiat. (MIRA 12:3) 9 no.1:143-148 Ja-F '59.

1. Laboratory of Higher Nervous Activity, Institute of Mother and Child Care, Prague, Czechoslovakia.

(REFLEX, CONDITIONED,
food reflexes in newborn, technic of investigation

(Rus))

(INFANT, NEWBORN,
conditioned food reflexes, technic of investigation
(Rus))

1 Thermodynamic properties of the carbon tetrachloride-propyl alcohol and carbon tetrachloride-isopropyl alcohol systems at 70°. Dušan Papoušek, Zlata Pavláčková, and Ladislav Págo (Masaryk Univ., Brno, Czechoslovakia). *Z. physik. Chem.* (Leipzig) 211, 231-40 (1959) (in English).—The liquid-vapor equil. of the systems $\text{CCl}_4\text{-PrOH}$ and $\text{CCl}_4\text{-iso-PrOH}$ were measured at 70° by means of a modified Gillespie app. (C.A. 40, 5931^a). The thermodynamic consistency of the exptl. data according to Redlich and Kister was proved. The thermodynamic properties of the systems are explained by the Kretschmer-Wiebe theory (C.A. 49, 1392b), based on the assumption of continued assocn. in solns. of alcs. and on the use of the Flory-Huggins expression for the free energy of soln.. The theory correctly predicts the asym. shape of the curves of the excess free energy of mixing and agrees fairly well with the exptl. data. The less pronounced assocn. of iso-PrOH in comparison with PrOH is also indicated correctly by the theory. F.R.

1
463d

2. 8/7 (1/3)

JG

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239130001-1

KODANASHVILI, I.A. - AMERKA, V.B. - KALYANOV, V.A. : KVAVAZHEVILYA, S.E.

Praventivnoe i kontrolyashchee delo po obnaruzheniu re. Tsiyevu
[Krasn. Pol. Reshet. Tsiyevu] MVD SSSR

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APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239130001-1"

PAPOVA, N.V., kandydat fizika-matematychnykh nauk

Relation between Loewner's equation and the equation $\frac{dw}{dt} = \frac{1}{w - \lambda(t)}$.
Vestsi AN BSSR no.6:02-93 N-D '54.
(Differential equations)

(MIRA 8:9)

PAPCVA, N. V.

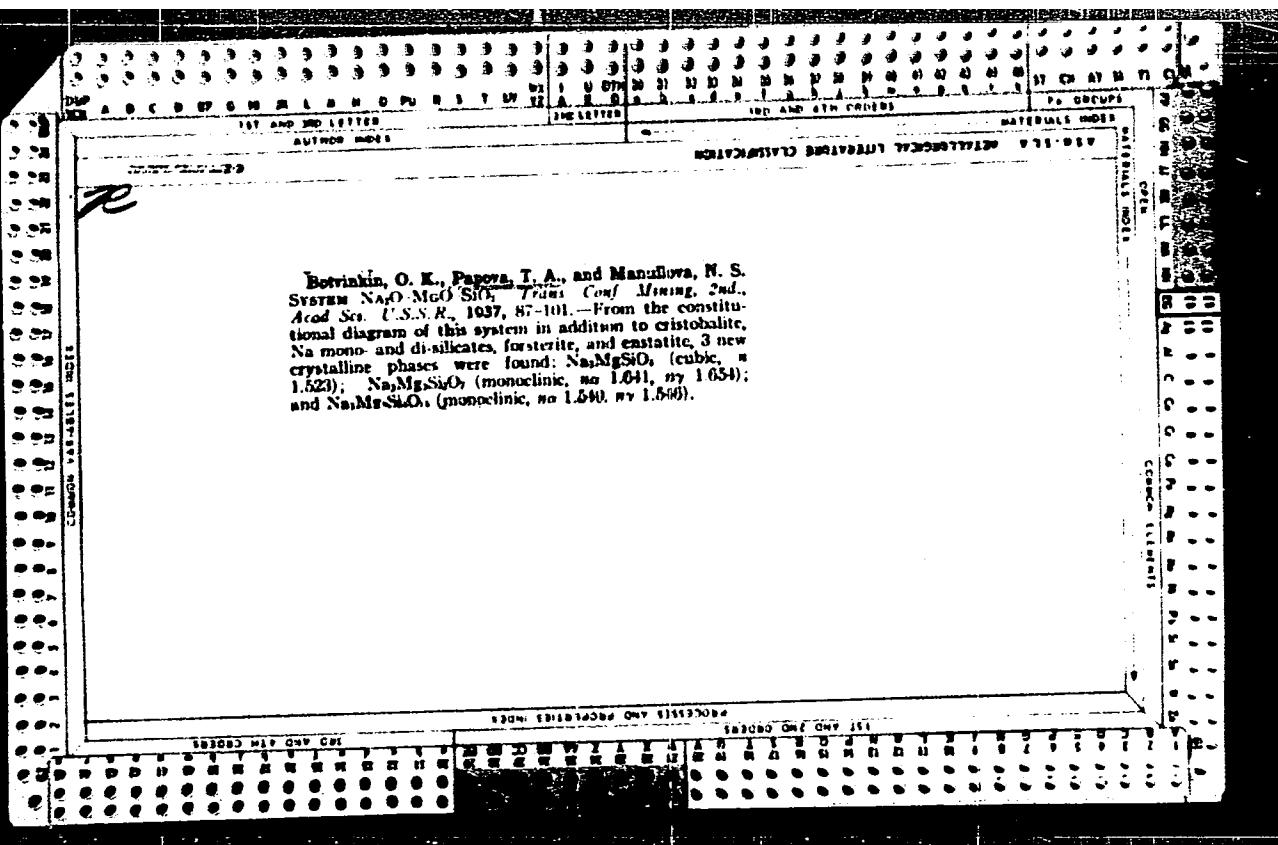
"A Differential Equation Whose Integrals Reflect the Semiplane Onto a Polyg.nal Region" (Theory of Functions of a Complex Variable) Vestsi AN BSSR, No 5, 1955, pp 156-163 (Belorussian)

AMX

W-31146, 1 Feb 55

PAPOVA, T. A.

Hotvinkin, O. K., Papova, T. A., and Manullova, N. S.
SYSTEM Na₂O-MgO-SiO₂. Trans. Conf. Mining, 2nd.
Acad. Sci. U.S.S.R., 1937, 87-101.—From the constitutional diagram of this system in addition to cristobalite,
Na mono- and di-silicates, forsterite, and enstatite, 3 new
crystalline phases were found: Na₂MgSiO₄ (cubic, $n = 1.623$);
Na₂Mg₂Si₂O₇ (monoclinic, $\alpha = 1.641$, $\gamma = 1.654$);
and Na₂Mg₂Si₂O₈ (monoclinic, $\alpha = 1.510$, $\gamma = 1.516$).



PAPOVIC, Blagoje

Possibility of forming economic units in railroad transport enterprises. Zeleznice Jug 19 no.9:35-41 S '63.

PAPOVIC, Blagoje

Problem of nonprofitable railroads. Zelznice Jug 18 no.5/6:45-49
'62.

PAPOVYAN, G.S.; MIRZABEKYAN, A.O.; VANTSYAN, Ye.A.; KARABEKOV, B.P.;
MKRTCHYAN, A.Ye.; MELKUMYAN, P.B.; GRIGORYAN, S.M.

Observations on botulism arising from canned Hippomarathrum
microcarpum. Vop. pit. 24 no.1:87-88 Ja-F '65.

(MIPA 18:9)

1. Institut epidemiologii i gigiyeny Ministerstva zdravookhraneniya
Armyanskoy SSR, Yerevan.

PAPOVYAN, Georgiy Sergeyevich

[Epidemiology and prophylaxis in typhoid fever] Epidemiologiya
i profilaktika briushnogo tifa. Erevan, Aipetrat, 1954. 19 p.
(MLRA 10:5)
(TYPHOID FEVER)

SUBBOTIN, V.I.; PAPOVYANTS, A.K.; KIRILLOV, P.L.; IVANOVSKIY, N.N.

Heat transfer to liquid sodium in pipes. Atom. energ. 13 no.4:380-
382 O '62. (MIRA 15:9)
(Heat—Transmission) (Sodium)

FAVOROVA, L.A.; CHUBKOVA, A.I.; PAPOYAN, A.I.; KAZARYAN, A.P.;
STEPANYAN, G.Kh.; AVAKYAN, B.S.

Study of the insecticidal effect of tutadione. Report No.1.
Zhur.mikrobiol., epid.i immun. 33 no.8:35-39 Ag '62.

(MIRA 15:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Camalei AMN
SSSR i Instituta epidemiologii i gigiyeany Armyanskoy SSR.
(BUTADIONE) (INSECTICIDES) (LICE)

PAPOVAN, A.M.

[Diphtheria] Difteriia. Erevan, Armianskoe gos. izd-vo, 1955. 17 p.
(DIPHTHERIA) (MLRA 10:1)

NAYDENOV, G., aspirant; SOLYANIK, S.; RADCHENKO, Yu., assistant; PAPOYAN, F., aspirant; GOKHELASHVILI, R., kand.biolog.nauk; LEVCHENKO, N., kand. sel'skokhoz.nauk; ARUTYUNYAN, Kh.; MOVSESYAN, R.; MILOV, M., aspirant

Brief news. Zashch.rast.ot vred.i bol. 10 no.4:50-52 '65.
(MIRA 18:6)

1. Ukrainskiy institut oroshayemogo zemledeliya, Kherson (for Naydenov).
2. Predsedatel' kolkhoza imeni Shdanova, Chuguyevskogo rayona, Khar'kovskoy oblasti (for Solyanik).
3. Khar'kovskiy sel'skokhozyaystvennyy institut (for Radchenko).
4. Armyanskiy institut zashchity rasteniy (for Papoyan).
5. Skriyskaya optynaya stantsiya plodovodstva (for Gokhelashvili).
6. Pedagogicheskiy institut, g. Birsk, Bashkirskaya ASER (for Levchenko).
7. Leninakanskaya selektsionnaya stantsiya (for Arutyunyan, Movsesyan).
8. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya, Moskva (for Milov).

PAPOYAN, K.Ye.

Two-line textile micrometer. Izv. Akad. Nauk SSSR Tekstil'nyy
prof. 1962, 3:37-40 (1962).

1. Moskovskiy tekstil'nyy institut.

PAPOYAN, S.A.; ZIL'FYAN, V.N.; DEKHTSUNYAN, K.M.

Effect of active immunization with a live tularemia vaccine
on the radioresistance of animals. Zhur. eksp. i klin. med.
(MIRA 17:2)
3 no.5:25-32 '63.

1. Sektor radiobiologii, Institut rentgenologii i onkologii
AMN SSSR, i kafedra epidemiologii Yerevanskogo meditsinskogo
instituta.

MUSHEGYAN, G.P.; PAPOYAN, S.A.

Significance of the nervous system in the formation of experimental
malignant tumors; preliminary report. Nauch.trudy Inst.fiziol. AN
Arm.SSR. 3:103-110 '50. (MIRA 9:8)
(NERVOUS SYSTEM) (CANCER)

MUSHEGYAN, G.P.; PAPOVAN, S.A.

Effect of growth promoting substances on the growth of experimental tumors in rats. Izv. AN Arm. SSR. Biol. i sel'khoz. nauki. 4 no.10: 901-907 '51.
(MLRA 9:8)

1. Institut fiziologii Akademii nauk Armyanskoy SSR.
(Acetic acid) (Tumors) (Growth promoting substances)

PAPOYAN, S.A.

Effect of embichin no.7 on blood and its usefulness in the treatment
of experimental leucosis. Izv. Akad. SSR. Biol. i sel'skhoz. nauki.
5 no.10:61-70 '52. (MLRA 9:8)

1. Institut onkologii Akademii neditsinskikh nauk SSSR, Leningrad
i Institut rentgenologii i onkonologii Ministerstva zdravookhrane-
niya Armyanskoy SSR, Yerevan.
(DIETHYLAMINE) (LEUCOSIS) (BLOOD)

Pa Poyan, S.A.

PANARDZHIAN, V.A., professor; KYANDARYAN, K.A., kandidat meditsinskikh nauk; POPOV, S.A., kandidat meditsinskikh nauk; ABOV'YAN, M.N., nauchnyy sotrudnik

Modifications of cardiac function in gamma-irradiation of the brain; roentgenokymographic and electrocardiographic studies. Vest. rent. i rad. no.4:55-57 J1-Ag '54. (MLRA 7:10)

(BRAIN, effect of radiation, on gamma rays, ECG & kymographic changes of heart during irradiation)

(HEART, physiology, eff. of gamma-irradiation of brain, ECG & kymography)

(RADIATIONS, effects, gamma, on brain, ECG & kymographic changes of heart during irradiation)

PAPOYAN, S. A., CHKAREULI, Ye. I. and KYANDARYAN, K. A.

"Dynamics of the Inclusion of Radiomethionine Into the Proteins of Organs and Tissues of Rats Irradiated With Different Doses of X Rays." a report presented at the Transcaucasian Radiological Conference, Tbilisi, 28-31 Oct 55.

Sum. No. 147, 31 Aug 56

PAPYAN, S. A., KVANDARIAN, I. A., DEMIRCHYAN, T. G., SHUMIYAN, S. I. and
FANARDZHYAN, D. A., Prof.

"Changes in the Blood and Blood-Forming Organs, and Some Biochemical Findings
in the Experimental Implication of Radiation Sickness," a report presented at the
Transcaucasian Radiological Conference, Tbilisi, 2-12 July 1958.

Sur. No. 1547, 33 Ap. 5

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CIA-RDP86-00513R001239130001-1

PAPCOVAN, S. A., PEGGLARYAN, A. G. and MYANDAMAN, V. A.

"Hystoepidemiology of the Herpes Zoster in White Experimental Rabbits," 1955.
a report presented at the Transcaucasian Radiological Conference, Tbilisi, 21-25 Oct 55.

Sum. No. 1347, 31 Aug 55

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239130001-1"

USSR/Human and Animal Physiology - Effects of Physical
Factors. Ionizing Radiation.

T-11

Abs Jour : Ref Zhur - Biol., No 18, 1950, 84686
Author : Cukarculi, Ye.I., Kyandaryan, K.A., Papoyan, S.A.
Inst :
Title : The Dynamics of Radioactive Methionine Incorporation into
Organ and Tissue Proteins of Rats Irradiated with Various
X-ray Dosages.
Orig Pub : Tr. 1-y zakavkazsk. konferentsii po med. radiol. Tbilisi,
Gruzmedgiz, 1956, 104-110

Abstract : Rats were subjected to irradiation of 200-800 r magnitude.
An hour later they received subcutaneous injections of me-
thiomine (I) marked S35. One to 24 hours after administra-
tion its contents were determined in damp tissues and dry
proteins. On the 1st, 3rd, 5th, and 6th days after irradia-
tion I injections were given again and I activity determi-
ned.

Card 1/3

- 77 -

USSR/Human and Animal Morphology (Normal and Pathological)
Peripheral Nervous System

S-3

Abs Jour : Rof Zhur - Biol., No 12, 1958, No 55113

Author : Bogolyubov, A.G., Kyandryan N.A., Papoyan S.A.

Inst : Not Given

Title : Histomorphology of the Nervous System in Experimentally
Induced Acute Radiation Sickness.

Orig Pub : Tr. 1-y Zekovsk. konferentsii po med. radiob. Tbilisi,
Gruzmedgiz, 1956, 148-150

Abstract : After some animals were irradiated, morphological characteristics of their reflex arc, reaching from the receptors to the cerebral cortex, were examined. A fragmentation of the sensory nerve fiber axons was disclosed, as well as a vacuolization of the myelinous membrane. A partial fraying of the neurofibrils occurs in the Ranck fibers of the corticarc, accompanied by their fragmentation. A polymorphism of the ganglionic cells takes place in the intervertebral nodules. Karyocytosis and shadow cells are found in various sections

Cord : 1/2

USSR / Human and Animal Physiology. Effect of Physical Factors. T-13

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3960

Author : Akopyan, S. A.; Papoyan, S. A.

Inst : Not given

Title : Testing of the Antishock Liquid "ArmiPK" in Acute
Radiation Sickness (Experimental Investigation)

Orig Pub : V sb.: Vopr. rentgenol. i onkol., T.2 Yerevan, 1957,
241-246

Abstract : No abstract given

Card 1/1

PAPOYAN, S.A.; ALLAVERDYAN, S.N.; DEMIRCHOGLYAN, I.G.; YERZINKYAN, I.A.

Use of fibrin films in the treatment of skin lesions from irradiation
[with summary in English]. Med.rad. 2 no.6:61-65 N-D '57. (MIRA 11:2)

1. Iz Nauchno-issledovatel'skogo instituta rentgenologii, radiologii
i onkologii Ministerstva zdravookhraneniya Armyanskoy SSR i Nauchno-
issledovatel'skogo instituta perelivaniya krovi Ministerstva zdravo-
okhraneniya Armyanskoy SSR.

(ROENTGEN RAYS, eff.

exper. skin lesions in rabbits, eff. of fibrin
membranes on healing)

(SKIN, eff. of radiations on

x-ray induced lesions in rabbits, eff. of fibrin
membranes on healing)

(HEMOSTATICS, eff.

fibrin membranes, on healing of x-ray induced skin
lesion in rabbits)

USSR/General Problems of Pathology- Tumors. Experimental Therapy. U
USSR/General Problems of Pathology- Tumors. Experimental Therapy. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4203

Author : Solokhova, L.A., Yankovskaya, T.S., Papoyan, S.A.

Inst : -
Title : The Administration of Neoembichine (Embichine No 7)
in Lymphogranulomatosis, Leukosits and Lymphosarcoms

Orig Pub : V sb.: Vopr. rentgenol. i onkol. T. 2. Yerevan, 1957,
325-322.

Abstract : 35 patients were treated with Neoembichine (I): lympho-
granulomatosis (27), lymphoid leukemia (4), lymphosarco-
matosis (3), myeloid leukemia (1). I was injected to the
patients 203 times weekly, beginning with 5-6 to 9-10 mg
daily; the total course was 40-112 mg. No side effects
were noted in 23 patients, and in the remaining ones ma-
nifestations of nausea and vomiting disappeared or de-
creased when I was administered in combination with hyp-
notics (medinal and others); blood transfusion was

Card 1/2

- 31 -

USSR/General Problems of Pathology - Tumors. Experimental Therapy. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4195

Author : Popyan, S.A., Movsesyan, M.A., Denirchyan, I.G.

Inst :
Title : On the Problem of the Mechanism of the Action of Embichine

Orig Pub : V sb.: Vopr. rentgenol. i onkol. T. 2. Yerevan, 1957,
367-371

Abstract : The effect of embichine No 4 (E) upon the bone-marrow blood formation of the posterior extremities of a rabbit was studied following preliminary section of the lower segments of the spinal cord. It was demonstrated that the depression of blood formation was significantly weaker in the experiment than in the control. E was injected into the optic vein in a single dose of 0.5 mg/kg (for dogs) and 0.25 mg/kg (for rabbits). The number of leukocytes in the peripheral blood increased sharply within 5 minutes and 1 hour following the injection of E;

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it decreases within a few hours, and at the end of the day it was smaller than 24 hours before. Following the development of conditioned reflex developed in the experimental animals - the number of leukocytes

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decreased in the same order with injections of physiological solution. On the basis of this, the authors concluded that an important role is played by neuroreflex factors in the mechanism of the action of E. -- O.V. Zubova

Card 2/2

USSR / Human and Animal Physiology. Nervous System.
Electroencephalogram of Man.

T

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102201.

Author : Kyandaryan, K. A.; Papoyan, S. A.; Beglaryan, A.
G.; Zagadskaya, A. A.; Arutyunyan, R. K.

Inst : AS USSR.

Title : Functional and Morphologic Changes of the Brain
Under the Effect of Ionizing Irradiations.

Orig Pub: Dokl. AN SSSR, 1957, 112, No 2, 249-252.

Abstract: EEG were investigated of patients subjected to local gamma-irradiation from a Co⁶⁰ source in doses of 4000-7000 r due to neoplasm of the skin of the face and head, and of rabbits subjected to general Roentgen irradiation of 1000 r or localized gamma-irradiation from Co⁶⁰ in the frontoparietal region of 51 000 r with a dose intensity of 465-735 r per

Card 1/3

83

USSR / Human and Animal Physiology
Electroencephalogram of Man.

T

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102201.

Abstract: the animal's death, the phase of terminal inhibition of the cortical activity preceded the latter phase. -- E. B. Glikson.

Card 3/3

84

USSR/Human and Animal Physiology (Normal and Pathological)
The Effect of Physical Factors. Ionizing Irradiation

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 27203

Author : Beglaryan, A.G., Kyandaryan, K.A., Papoyan, S.A.

Inst : Academy of Sciences USSR

Title : Histopathology of the Nervous System at Various Periods
of Experimental Acute Radiation Sickness

Orig Pub : Dokl. AN SSSR, 1957, 112, No 3, 422-424

Abstract : Skin, tongue, liver, aortic arch, adrenals, parts of
various regions of gastro-intestinal tract, spinal cord
with intervertebral ganglia, vagal nerve with nodose
ganglion, medulla oblongata and cerebrum of rabbits which
perished at various periods of radiation sickness were
studied. During the latent period and period of primary
reactions, dystrophic changes of viscero-receptive

Card 1/2

- 176 -

PAPOYAN, S. A., Doc Med Sci -- "Experimental study of certain fluor^{ine} derivatives of chloralkylamines (^{tumorous} antineoplastic activity; pharmacological and morphological studies; effect upon the blood and hemopoiesis, and other functions of the organism)." ^{Urgn}

Mos-Yerevan, 1960 (Min of Health [redacted] Armenian SSR. Yerevan Med Inst).

(KL, 1-61, 205)

-349-

271220

44564

S/739/60/001/000/001/015

EO20/E185

AUTHORS: Fanardzhyan, V.A., Professor; Kyandaryan, K.A., Candidate of Medical Sciences; Beglaryan, A.G., Docent; Papoyan, S.A., Candidate of Medical Sciences; and Arutyunyan, R.K., Candidate of Medical Sciences.

TITLE: Changes in function and morphology in a number of organs and systems of Man and animals under the influence of large and small doses of ionizing radiation

SOURCE: Akademiya nauk Armyanskoy SSR. Sektor radiobiologii. Voprosy radiobiologii. v.1, 1960, 19-33

TEXT: The effects of ionizing radiation on the nervous, circulatory and digestive systems were clinically and experimentally investigated. 1) Nervous system. Electroencephalography carried out on 20 patients who were irradiated to the head in doses of 4000-7000 r for the treatment of malignant conditions of the scalp showed the presence of delta waves of 0.4-0.8 sec duration, reduction in the amplitude of the biopotentials, asymmetry of the

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hemispheres and occasionally respiratory and cardiac rhythms. These changes were most marked 24 hours after irradiation and had partly returned to normal after 10 days. Thirty persons suffering from the effects of occupational exposure to ionizing radiation were also studied; the electroencephalograms showed a predominance of rapid potentials indicating excitatory processes (7 patients), low amplitudes and slow rhythms indicating inhibition (11), or did not differ significantly from normal (11 patients).
Electroencephalography carried out on 40 rabbits in which severe acute radiation sickness had been produced showed a reduction in amplitudes during the first few hours after irradiation, with slow waves of duration 0.3-0.25 sec. Histologically there was damage to the posterior root ganglia (chromatolysis of neurones) and sensory tracts (varicosity of the axons and vacuolation of the myelin sheaths). After 3 - 7 days there were motor disturbances (salivation, lacrimation, diarrhoea) and tachyrhythmia in the electroencephalogram. Death occurred after 7 - 13 days, and in the later stages the electroencephalographic changes showed some tendency to normalization. In 2 rabbits which recovered and were

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examined 9 months after irradiation, the cerebral cortex contained areas where the cells were shrunken and hyperchromatic, or showed hydropic dystrophy with chromatolysis and karyocytolysis. Similar appearances were found in 11 dogs which had survived radiation sickness as the result of intensive treatment. Studies with radioactive methionine carried out in 30 white rats subjected to 200-800 r showed that incorporation into the brain was first accelerated and then depressed. The results of the studies indicate that the central nervous system is very sensitive to ionizing radiation and shows evidence of damage almost immediately.

2) Digestive system. Complex radiological and pathological investigations were carried out on dogs and rats suffering from acute radiation sickness. During the first 24 hours after irradiation the stomach in dogs showed delayed emptying and loss of tone. The contrast medium did not disappear from the stomach and small intestine until the fourth day. A similar effect was noted in rabbits. Autopsy carried out after 72 hours revealed paralytic distension of the stomach, with vacuolation of the myelin sheaths and varicosity and fragmentation of the axons in the

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